

## Vaccination Adherence in International Travelers After Telemedicine Consultations

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The International Health Service of the Hospital Clínic of Barcelona has experienced a notable increase in demand for pre-travel consultations (PTC) in recent years. Due to limited physical space, an online PTC modality was implemented. This study evaluates vaccination adherence among international travellers after online PTC at this centre.

We conducted a retrospective review of 500 medical records of travellers who had an online PTC between October 2023 and August 2024. Statistical analyses assessed demographic characteristics, travel motives, consultation timing, vaccination recommendations, vaccination uptake, mandatory vaccinations and vaccination refusal after telemedicine consultation.

The participants ranged in age from 1 to 87 years. Vaccination was recommended for 459 (92%). Among them, 52 required only an electronic prescription for oral typhoid vaccine. Of the 407 needing in-clinic vaccination, 336 (83%) attended their appointment and 31 declined at least one recommended vaccine, most commonly Qdenga®. Destinations were predominantly Asia (51%) and tourism was the main motive (n=429). The median interval between vaccination and departure was 23 days, with 26% vaccinated within 15 days of travel. No significant associations were found between adherence and demographic or travel variables. Adherence was highest for intramuscular typhoid fever, poliomyelitis, hepatitis A, and yellow fever vaccines (84%–88%). Among those who did not attend the scheduled appointment 61% had more than one recommended vaccine.

Telemedicine is an effective and broadly acceptable platform for pre-travel health assessment, improving access and reducing unnecessary clinic visits. However, gaps in vaccine uptake persist, highlighting the need for additional strategies to optimise adherence.